



TGA Lesson Plan

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Grade Level: varies	Course Title: This lesson is adaptable to a variety of grade levels. Teachers may add or delete information as needed for specific grade levels.
State Standard(s)	<p>1.07 Recognize major products and industries found in Tennessee (e.g., agriculture, manufacturing, mining, music, and tourism). (E)</p> <p>3.14 Compare natural resources within the three grand divisions of Tennessee, and trace the development of a product from natural resource to a finished product.</p> <p>5.53 Compare and contrast the three grand divisions of Tennessee in terms of the following:</p> <ul style="list-style-type: none"> • Major industries (e.g., Eastman, FedEx, and Nissan) • Tourism (e.g., Bristol Motor Speedway, Civil War sites, and Graceland) • Agriculture and livestock (e.g., soybeans in West TN, tobacco in Middle TN, and dairy in East TN) • Geography (i.e., Gulf Coastal Plains, the Nashville Basin, the Highland Rim, the Cumberland Plateau, the Great Valley, and the Great Smoky Mountains)
Resources	<p>Videos</p> <ul style="list-style-type: none"> • The Story of Cotton (8:03) https://www.youtube.com/watch?v=AAUQNMI dp_Y • Let's Talk Cars: How Nissan Builds the Altima (6:24) https://www.youtube.com/watch?v=FbHqNOzXUOM • The Nissan Smyrna Manufacturing Process (3:21) https://www.youtube.com/watch?v=1QjG5t-RP6I • Tennessee Coal Mining (3:25) https://www.youtube.com/watch?v=-2TyMqwftJE&list=PLBGyv95h6sgVEnHD58DRYp_op1CDFHHi&index=4 • Tennessee Tourism 1990 (1:00) https://www.youtube.com/watch?v=Ed_elfAarmE • Carson Peters and Ricky Skaggs: Live at the Grand Ole Opry (5:54) https://www.youtube.com/watch?v=hkngjEgHgk <p>Websites</p> <ul style="list-style-type: none"> • Made in Tennessee (focus on manufacturing) http://www.madeintn.org/ • TN Farm Bureau: Ag in the Classroom https://www.tnfarmbureau.org/tn-ag-in-the-classroom • Pick Tennessee Products https://www.picktnproducts.org/

	<ul style="list-style-type: none"> Tennessee Encyclopedia of History and Culture https://tennesseeencyclopedia.net/
Time Required	60+ minutes (varies based on use of video clips)
	Introductory Activities
Step 1	Place several items on a table in the front of the room or display pictures on the board. Ask students if they know what all the items have in common. Allow time for responses. If no one gives the correct answer, inform students that all of the items are made or produced in the state of Tennessee. Tell students the Grand Division (or the specific city/county) where each item is made or produced and place them in their correct locations on a state map. Ask students to brainstorm resources and/or products found in their county/city.
Step 2	<p>Product Card Sort:</p> <p>Print the card sort activity on labels using Avery Product 5163 Shipping Labels (2" X 4") and attach them to index cards, or print the labels directly onto card stock and cut them apart. The card sort activity will remain in good shape longer if the cards are laminated before use. Shuffle the cards well.</p> <p>Tell students they will each be given a card with a Tennessee product on it. When the teacher gives the signal, students must move around the room and look for others who have similar cards.</p> <p>The goal of the activity is for students to create four groups that represent the four general types of resources in Tennessee: agriculture, manufacturing, mining, service industries (including tourism). The teacher may choose to place the category names around the room, or the teacher may choose to have students come up with the categories themselves.</p> <p>After students have successfully formed groups, have each group share their products. Make corrections as needed. It should be noted that some products may seem to overlap into multiple categories. Give students an opportunity to justify their placements. For example: milk could be manufacturing because it is a finished product, but some students may view it as agriculture.</p>
Slide Number(s)	Lesson Outline
1	Title Slide
2	Content Standards for grades 1, 3, and 5. The teacher may choose to modify the standards into learning targets for the lesson.
3	<p>Tennessee is an agriculturally-rich state. Agriculture is another word for farming. There are two main types of agriculture: livestock and crops. Livestock involves raising farm animals, and crops include plants such as fruits, vegetables, and even trees and flowers.</p> <p>Ask students to write a definition of agriculture on their graphic organizer. Next, have them add three specific examples of agriculture products to the graphic organizer.</p> <p>Think-Pair-Share: Allow students to share some examples they brainstormed.</p>
4	Reveal to students some of the main agricultural products in Tennessee.

5	<p>Video: <i>The Story of Cotton</i></p> <p>Viewing time is 8 minutes, 3 seconds. Click on the picture to be redirected to YouTube in order to watch video. Teachers may want to download video and embed it into PPT rather than depending on Internet connection.</p> <p>Prior to class use, teachers should preview videos to ensure alignment with grade level standards and learning goals.</p>
6	<p>Tennessee is also home to many different manufacturing facilities. Manufacturing is the process of making a finished good or product in a factory. These facilities are sometimes referred to simply as <i>factories</i>.</p> <p>Ask students to write to a definition of manufacturing on their graphic organizer. After giving them a few examples of items made through the process of manufacturing, have them add three other specific examples of manufacturing products to the graphic organizer.</p> <p>Think-Pair-Share: Allow students to share some examples they brainstormed.</p>
7	<p>Reveal to students some of the main manufacturing/industrial products in Tennessee.</p>
8	<p>Video: <i>Let's Talk Cars: How Nissan Builds the Altima</i> (this is a more detailed video and includes narration) Video: <i>The Nissan Smyrna Manufacturing Process</i> (this is a simpler video and includes music only)</p> <p>Viewing time for the first video is 6 minutes, 24 seconds. Viewing time for the second video is 3 minutes, 21 seconds. Click on the selected picture to be redirected to YouTube in order to watch video. Teachers may want to download video and embed it into PPT rather than depending on Internet connection.</p> <p>Prior to class use, teachers should preview videos to ensure alignment with grade level standards and learning goals. The first video may be more suitable for upper grades, while the second video may be more suitable for lower grades.</p>
9	<p>Tennessee has many different types of minerals. Minerals are natural resources that are found below ground. Mining, or the process of digging minerals out of the ground, is very difficult work. The minerals are usually treated as raw materials that are used to make something else.</p> <p>Ask students to write to a definition of minerals or mining on their graphic organizer. After giving them a few examples of minerals, have them add three other specific examples of minerals to the graphic organizer.</p> <p>Think-Pair-Share: Allow students to share some examples they brainstormed.</p>
10	<p>Reveal to students some of the main minerals found in Tennessee. Ask students where in Tennessee they think minerals are most likely to be found.</p>
11	<p>Video: <i>Tennessee Coal Mining</i></p> <p>Viewing time for the video is 3 minutes, 25 seconds. Click on the selected picture to be redirected to YouTube in order to watch video. Teachers may want to download video and embed it into PPT rather than depending on Internet connection.</p> <p>Prior to class use, teachers should preview videos to ensure alignment with grade level standards and learning goals.</p>

<p>12-13</p>	<p>Service industries are very important to Tennessee’s economy. Many people work in service industries throughout the state. Explain the term “service industry” to students.</p> <p>Ask students to write to a definition of service industry on their graphic organizer. After giving them a few examples of service industries, have them add three other specific examples of service industries to the graphic organizer.</p> <p>Think-Pair-Share: Allow students to share some examples they brainstormed.</p>
<p>14</p>	<p>Reveal to students some of the main minerals found in Tennessee. Ask students share with a partner about one of the service industries they have visited or interacted with.</p>
<p>15</p>	<p>Video: <i>Tennessee Tourism</i></p> <p>Viewing time for the video is 1 minute. Click on the picture to be redirected to YouTube in order to watch video. Teachers may want to download video and embed it into PPT rather than depending on Internet connection.</p> <p>Prior to class use, teachers should preview videos to ensure alignment with grade level standards and learning goals. This quality of this retro commercial is not great. Shorter versions of the commercial are available. However, this commercial provides a good segue into the development of the music industry in Tennessee (state standard 5.51). Students can try to identify different types of music showcased in the commercial.</p>
<p>16</p>	<p>Video: <i>Carson Peters and Ricky Skaggs: Live at the Grand Ole Opry</i></p> <p>Viewing time for the video is 5 minutes, 54 seconds. Click on the picture to be redirected to YouTube in order to watch video. Teachers may want to download video and embed it into PPT rather than depending on Internet connection.</p> <p>Prior to class use, teachers should preview videos to ensure alignment with grade level standards and learning goals. This video allows students to watch an elementary school student performing at the Grand Ole Opry.</p>

**Class Exercise 1
Mapping Resources**

Provide students with an outline map of Tennessee, including borders for the three Grand Divisions. Have students create a map key with the name of the resource and a symbol for each resource listed (teacher should determine which resources to include on the map). After creating the map key, students should draw the symbols in the correct Grand Divisions to show where each source is located. For sources that are prevalent in more than one Grand Division, students may draw the symbol in all applicable areas. If the state standards specify a Grand Division for a resource, students should draw the symbol in the specified area. For businesses that are headquartered in Tennessee, students should draw the symbol in the Grand Division where the company headquarters are located.

**Class Exercise 2
Billboard Advertisement**

Assign each student a different product or resource from Tennessee. Have students research information using one of the websites listed in “Resources.” The *Tennessee Encyclopedia of History and Culture* is extremely useful for older

students completing this activity. After students have completed their research, they should create a billboard advertisement for the product or resource. Instructions for this activity are included with the student handouts at the end of this lesson plan.

Extension Exercise 1 Jingle/Commercial Advertisement

Have students write a song/jingle for their assigned resource to accompany the billboard advertisement. Teachers may offer suggestions for tunes or allow students to choose their own. Students will perform the song/jingle as part of the billboard (commercial) presentation. Alternatively, students can use electronic devices to put the song/jingle to pictures and create a commercial video presentation.

Extension Exercise 2 Track My T

Use the website *Track My T* (<http://trackmyt.com/>) to *trace the development of a product from natural resource to a finished product* (state standard 3.14). This interactive site allows students to track a random t-shirt from field to finished product. While the website does provide an option for tracking an actual t-shirt, only specific brands and lot numbers can be used for this feature. After using the interactive site (independently, small groups, or whole group), have students complete a teacher-created sequencing activity to demonstrate learning.

Cattle



Coal



Marble



Tobacco



Ball Clay



Corn



Zinc



Soybeans



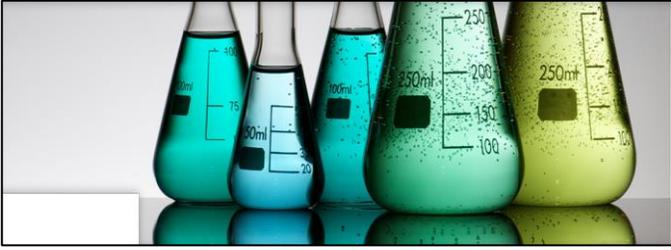
Cotton



Copper



Chemicals



Transportation

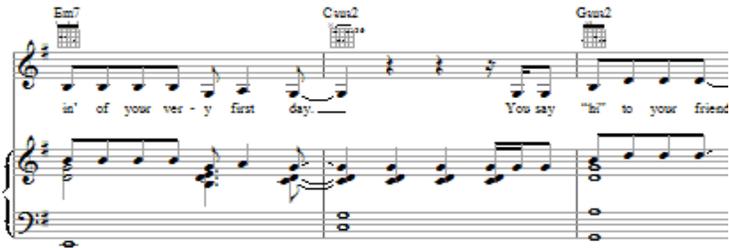


Cars



Shiloh National Park

Sheet Music



Bristol Motor Speedway



Books



Graceland



Processed Foods



Restaurants



Name

Date

Class

Agriculture

Definition:

Examples:

Manufacturing

Definition:

Examples:

Tennessee's Major Products and Industries

Definition:

Examples:

Mining

Definition:

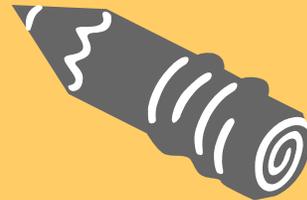
Examples:

Service Industries

TENNESSEE RESOURCES

Mountains, Mussels, and Moonpies

**Design a
BILLBOARD ADVERTISEMENT
for a selected Tennessee resource.**



You are employed by the Department of Advertising for one of Tennessee's local industries, and you have been given you a very important job! You are responsible for creating a new advertising campaign for the resource your company, agency, or farm promotes. The advertising campaign is to be presented in the form of a miniature billboard poster. Because this is an extremely important and competitive job, your designs must be completely confidential. You cannot allow other industries to know anything about the advertisement you are creating! You have been given only a few days to complete your advertisement project, and you must be prepared to present it to the class. During your presentation, you must share your advertisement poster and answer questions about the resource

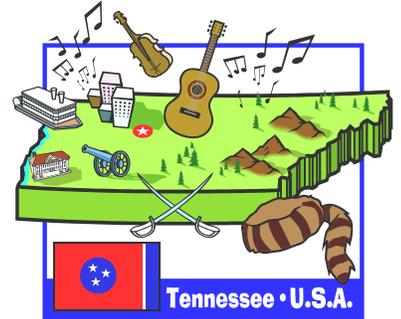
Product Research Due Date: _____

Billboard Due Date: _____

MOUNTAINS, MUSSELS, AND MOONPIES—BILLBOARD ADVERTISEMENTS PREPARING FOR YOUR AD CAMPAIGN

You must create a billboard advertisement (poster) that includes the following:

- Name of Resource
- Slogan that would get people's attention
- Location of the resource
- Pictures of the resource
- 1-3 short, easily understood facts about the resource



During your presentation, you must be prepared to share the following:

- All information on your billboard advertisement poster
- Grand Division and Physical Region in which the resource is located
- Show the correct location of your resource on a large Tennessee map
- Answer any questions asked by the teacher

Note: You may draw, use computer graphics, pictures from magazines (be sure these are accurate—if your resource is Nissan automobiles, don't use a picture of a Ford), construction paper, stickers, glitter, felt squares, etc. The poster and construction paper will be provided for you. You must supply other items you wish to use.

*There is a sample of an acceptable billboard ad poster in the front of the classroom.

Directions: In preparation for creating your billboard, answer the following questions. The completed product research must be submitted as part of your billboard ad campaign.

1. What is the resource? _____
2. Which category best describes the resource (agriculture, manufacturing, mineral, or service industry)? _____
3. In what Grand Division of Tennessee is the resource found (East, Middle, West)?

4. In what physical region of Tennessee is the resource found (Great Smoky Mtns., East TN Valley and Ridge, Cumberland Plateau, Highland Rim, Central Basin, Coastal Plain)?

5. In what county or city is the resource found? (if given)

6. On a separate sheet of paper, list 3-5 other important facts about the resource, including how it helps the economy. (Look for information such as important dates, names, amounts of resource, costs, numbers of visitors, numbers of employees, changes in productions over time, etc.) You will use these facts to help you know what to include in your billboard design.